

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,969	12/23/2003	Luc Bouwens	920522-95346	9403
	7590 10/12/2007 HORNBURG LLP	EXAMINER		
P.O. BOX 2786 CHICAGO, IL 60690-2786		HOLTON, STEVEN E		
			ART UNIT	PAPER NUMBER
			2629	
			MAIL DATE	DELIVERY MODE
			10/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action	Application No.	Applicant(s) BOUWENS ET AL.	
Before the Filing of an Appeal Brief	Examiner. Steven E. Holton	Art Unit 2629	
The MAILING DATE of this communication app	pears on the cover sheet w	ith the correspondence address	
REPLY FILED <u>17 September 2007</u> FAILS TO PLACE T	THIS APPLICATION IN CON	DITION FOR ALLOWANCE.	
The reply was filed after a final rejection, but prior to or this application, applicant must timely file one of the fo			

	Steven E. Holton	2029	
The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence add	ress
THE REPLY FILED 17 September 2007 FAILS TO PLACE TH	IS APPLICATION IN CONDITION	FOR ALLOWANCE.	
The reply was filed after a final rejection, but prior to or o this application, applicant must timely file one of the follop places the application in condition for allowance; (2) a No (3) a Request for Continued Examination (RCE) in comp following time periods:	owing replies: (1) an amendment, a otice of Appeal (with appeal fee) in	ffidavit, or other evidence compliance with 37 (ence, which CFR 41.31; or
a) \square The period for reply expires $\underline{4}$ months from the mailing date of	f the final rejection.		
b) The period for reply expires on: (1) the mailing date of this Adv event, however, will the statutory period for reply expire later the			er is later. In no
Examiner Note: If box 1 is checked, check either box (a) or (b) MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).		
Extensions of time may be obtained under 37 CFR 1.136(a). The date on seen filed is the date for purposes of determining the period of extension a CFR 1.17(a) is calculated from: (1) the expiration date of the shortened stabove, if checked. Any reply received by the Office later than three month parned patent term adjustment. See 37 CFR 1.704(b).	and the corresponding amount of the fee. atutory period for reply originally set in the	The appropriate extension final Office action; or (2)	n fee under 37 as set forth in (b)
2. The Notice of Appeal was filed on A brief in com	nliance with 27 CER 41 27 must be	s filed within two man	the of the date
of filing the Notice of Appeal was filed on A brief in come of filing the Notice of Appeal (37 CFR 41.37(a)), or any e Since a Notice of Appeal has been filed, any reply must be MMENDMENTS	extension thereof (37 CFR 41.37(e)), to avoid dismissal o	of the appeal.
B. ☑ The proposed amendment(s) filed after a final rejection,	but prior to the date of filing a brie	f will not be entered	hecause
(a) \boxtimes They raise new issues that would require further co	· · · · · · · · · · · · · · · · · · ·		occause
(b) ☐ They raise the issue of new matter (see NOTE below	· · · · · · · · · · · · · · · · · · ·	50.011/1	
(c) They are not deemed to place the application in be appeal; and/or		educing or simplifying	the issues for
(d) They present additional claims without canceling a	corresponding number of finally re	jected claims.	
NOTE: See Continuation Sheet. (See 37 CFR 1.1		,	
I. The amendments are not in compliance with 37 CFR 1.	121. See attached Notice of Non-C	ompliant Amendment	(PTOL-324).
5. Applicant's reply has overcome the following rejection(s			
 Newly proposed or amended claim(s) would be a the non-allowable claim(s). 		-	_
For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is proof The status of the claim(s) is (or will be) as follows:		vill be entered and an	explanation of .
Claim(s) allowed:			
Claim(s) objected to: Claim(s) rejected:			
Claim(s) rejected Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
The affidavit or other evidence filed after a final action, b because applicant failed to provide a showing of good ar and was not earlier presented. See 37 CFR 1.116(e).			
The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessar	overcome <u>all</u> rejections under appe	eal and/or appellant fa	ils to provide a
0. The affidavit or other evidence is entered. An explanation	-		
The request for reconsideration has been considered by	ut does NOT place the application	in condition for allowa	ance because:
2. Note the attached Information Disclosure Statement(s).	(PTO/SB/08) Paper No(s).		
3. Other:		AMR A.	
		SUPERVISORY PA	I FINI EXAMIN
		Am , Mand ?	on/

U.S. Patent and Trademark Office PTOL-303 (Rev. 08-06)

Application No.

Continuation of 3. NOTE: The amendment to claim 1 by including the limitations of the old claim 6 changes the scope of claims 3-5 and 7-21. Previously these claims did not include the requirement of the target luminance and would require further consideration based on the change of the dependent claim. It is because of this change in scope that the amendments to the claims is not entered.

The Examiner respectufly disagrees about the lack of teaching regarding the combination of Booth Jr., Oguchi, and Kojima references.

Regarding the combination of Booth Jr. and Oguchi, the Examiner feels that the previous statement of motivation or suggestion was poorly written. The teachings of Oguchi clearly show a method of calculating a virtual color primary using a center of gravity calculation method (Fig. 5; col. 10, lines 20 - 67). This method of calculation is applied to a color gamut measured from a modular display. While this measurement is not done on a pixel level, the method of calculation for a set of display level color gamuts could also be applied to a set of pixel level color gamuts. At the time of invention it would have been obvious to one skilled in the art that the center of gravity calculation for determining a virtual primary of a set of color gamuts as described by Oguchi could also be applied to a set of measured pixel color gamuts being determined by Booth Jr. Booth Jr. is interested in matching the color display values of one pixel to another pixel, whereas Oguchi is matching the color display values for multiple display units. It would be logically obvious that the matching technique of Oguchi would also be applicable to matching the colors of pixels of Booth Jr. One skilled in the art would find the use of a minimized color gamut calculation as used by Booth Jr. or a center of gravity calculation as used by Oguchi would be a matter of design choice of selecting one of differing styles of mathematical calculations to match the displayed color values from different elements with different measured color gamuts. Both types of calculations are used with the intent of producing a virtual color gamut to be used by multiple display elements (devices or pixels) to match the displayed color across all display elements.

Regarding the arguments about a lack of teaching of a target luminance value as described by Kojima. The Examiner notes that Kojima clearly states "the luminous intensity... are matched (col. 4, lines 8-11). Kojima further mentions in the prior art that matching luminance levels of pixels has already been known (col. 1, lines 43-56). Kojima discusses that first color correction is performed and then luminance correction is performed to match all of the luminance of each pixel element (col. 4, lines 16-26). This indicates that a target luminance is determined and then every pixel is matched to that target luminance so that every pixel is outputting the same luminance levels. This argument could require further consideration, whether the target luminances are chosen based on ability of pixels to reach said luminance or merely aribtrarily determined. However, because all of the luminance levels of Kojima are matched, it indicates that the matching level would be selected in such a manner to allow all of the pixels to reach that luminance. Otherwise, it would be impossible to match the luminance levels of all pixels to a level that some pixels are unable to obtain.

The Examiner also notes that teachings in Kojima point out that the coor matching techniques could be applied to both fixed resolution (LCD,LED) displays and non-fixed resolution (CRT) displays (col. 7, lines 33-36). And Kojima also discusses that the matching calculation techniques could be applied to mosaic display systems by correcting both difference between individual pixels and also between units (col. 7, lines 37-50). This shows that the calculation methods for pixel color gamuts could also be applied to display level color gamuts.